Abstract

A mixture comprising a surfactant and a cosurfactant is proposed, wherein the cosurfactant used is an amphiphilic polymer with the structural formula

$$A'-Y - \left[-A - \right]_{\overline{m}} X - \left(-B - \right]_{\overline{n}} H$$
 (I)

in which

- A' is an unbranched or branched alkyl, cycloalkyl, aryl or aralkyl radical having 1 to 60 carbon atoms,
- Y is S or O,
- A is a structural unit with the formula

$$\begin{array}{c|c}
R^3 & R^4 \\
\hline
R^1 & R^2
\end{array}$$

in which

- R¹, R², R³ and R⁴ independently of one another, are the substituents hydrogen, methyl, ethyl, n-propyl, octyl or phenyl,
- m is a running number in the range from 10 to 200,
- X is a structural unit with the formula

$$\begin{bmatrix} R_3 & R_4 \\ R_1 & R_2 \end{bmatrix}_q$$

in which the substituents

 R_1 , R_2 , R_3 and R_4 are the same as in the structural unit A,

$$q = 0 \text{ or } q = 1$$
,

- B is a monomeric subunit based on ethylene oxide or a mixture of ethylene oxide and propylene oxide,
- n is a running number in the range from 20 to 500 and

$$p = q + 1.$$

(Fig. 1)